

# Nez Perce Tribe Department of Fisheries Resource Management Watershed Program

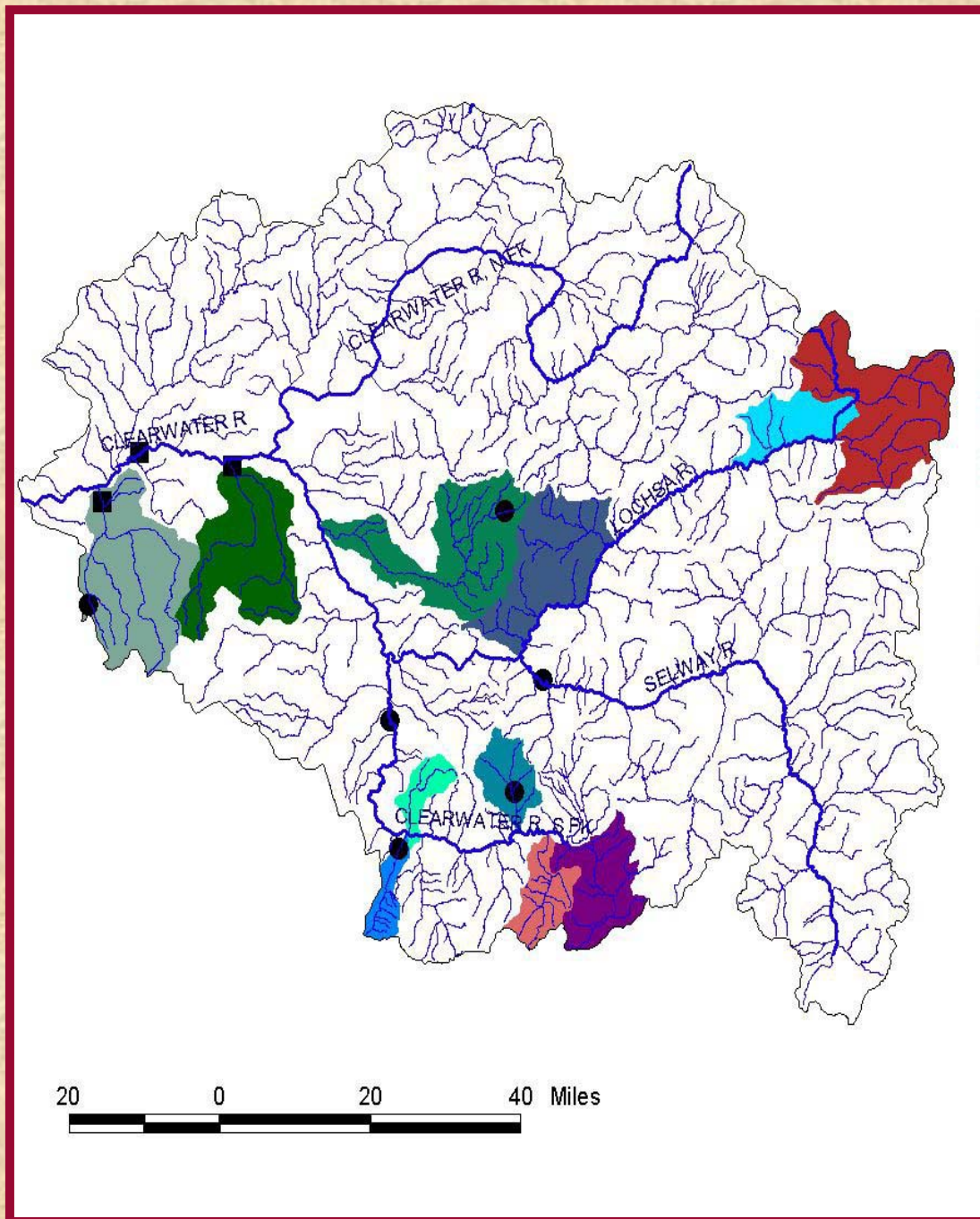
# Pacific Coastal Salmon Recovery Fund Projects

- Funded through Columbia River Inter-tribal Fish Commission (CRITFC)
- MOU between CRITFC and NOAA Fisheries



# Clearwater River Subbasin

- Lolo Creek
  - Culverts
- Mill/John's Creeks
  - Cattle Exclusion
- Lapwai Creek
  - Railroad Decommissioning



# Lolo Creek Culverts

## Project Goal

- Restore passage/access to pristine habitats within the Lolo Creek watershed using natural stream simulation
- Reduce failure risk of culverts





Chamook  
Creek  
outlet  
before  
construction.





Culverts are designed with gravel retention structures (baffles) to simulate natural stream conditions.



# Outlet of culvert



2 days after construction

# Project Accomplishments

- 9 miles of habitat made available through the combined four culvert replacements
- Critical rearing habitat for steelhead trout, Chinook salmon, Coho salmon, and cutthroat trout
- Spawning habitat for cutthroat trout, Coho salmon and possibly steelhead trout
- Cooperative effort with the Clearwater National Forest



# Project Monitoring

- Fish presence/absence above culvert
  - Before and after construction
- Channel substrate within, above, and below the culvert
  - Before and after construction

# Mill & John's Creek Cattle Exclusion Project Goal

- Protect critical rearing and overwintering habitats from further degradation by grazing practices, within Merton & Buck Meadows



# Fence Construction





# Merton Meadow Fence





# Project Accomplishments

- Approximately 4 miles of fence construction
- 1.5 miles of meadow stream habitat for spring Chinook salmon and steelhead trout protected from grazing disturbance
- Cooperative project with Nez Perce National Forest

# Project Monitoring

- Channel morphology, including in-stream habitat features
- Channel substrate
- Water quality (i.e. temperature)
  - Data collected first year of project and one-year later



# Implement Camas Prairie Railroad Abandonment Stream Restoration Plan - Lapwai Creek Watershed

## Background

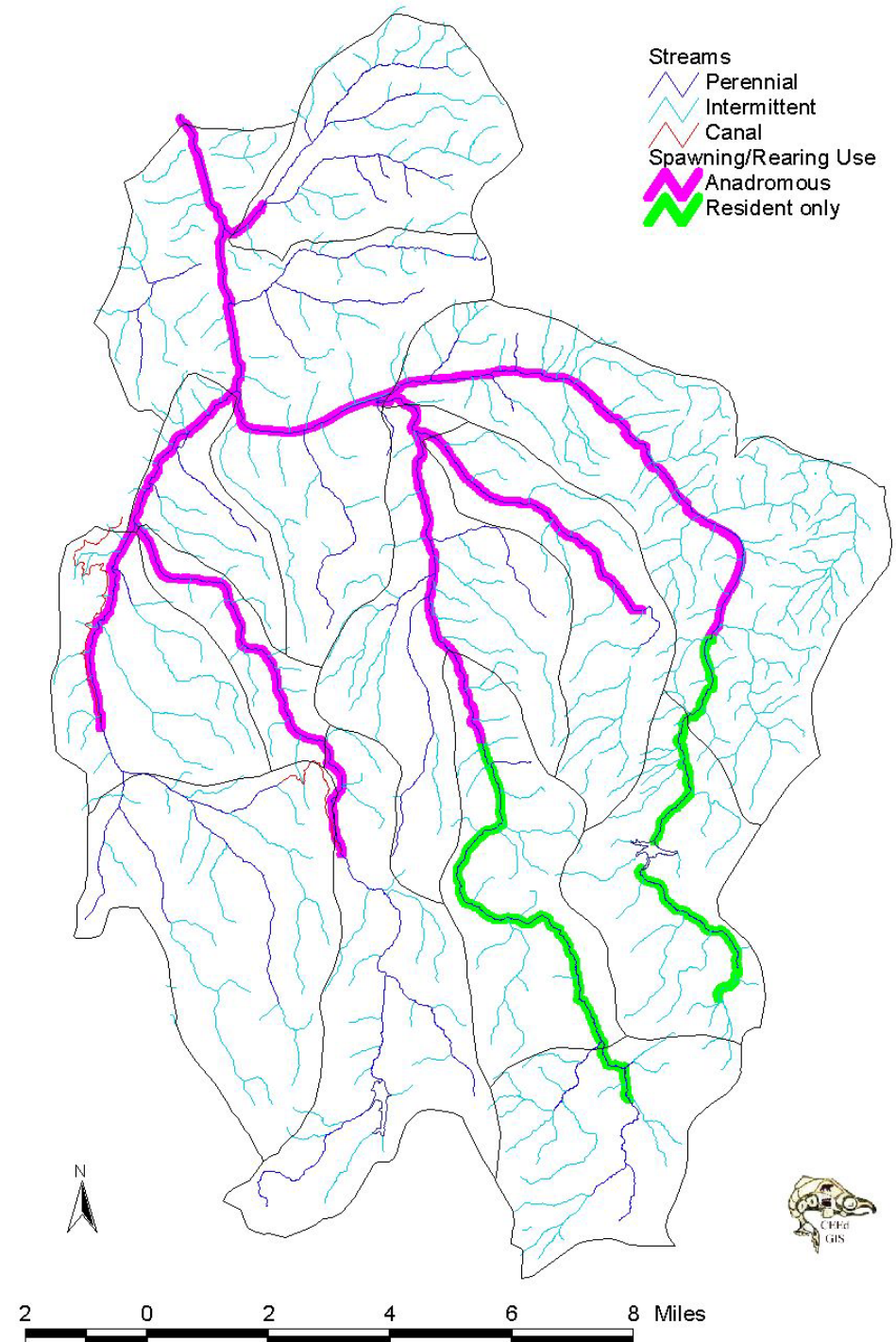
- *Implementation - summer 2003-2004*
- *Cooperative project with NRCS, Local Conservation District, Idaho Fish and Game, and CSPR*
- *Critical part of an on-going watershed restoration effort*

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# Fisheries

- *Wild A-run Steelhead (threatened)*
- *Fall Chinook Salmon in Clearwater River (threatened)*
- *Spring/Summer Chinook Salmon*
- *Westslope Cutthroat Trout*
- *Redband Trout*







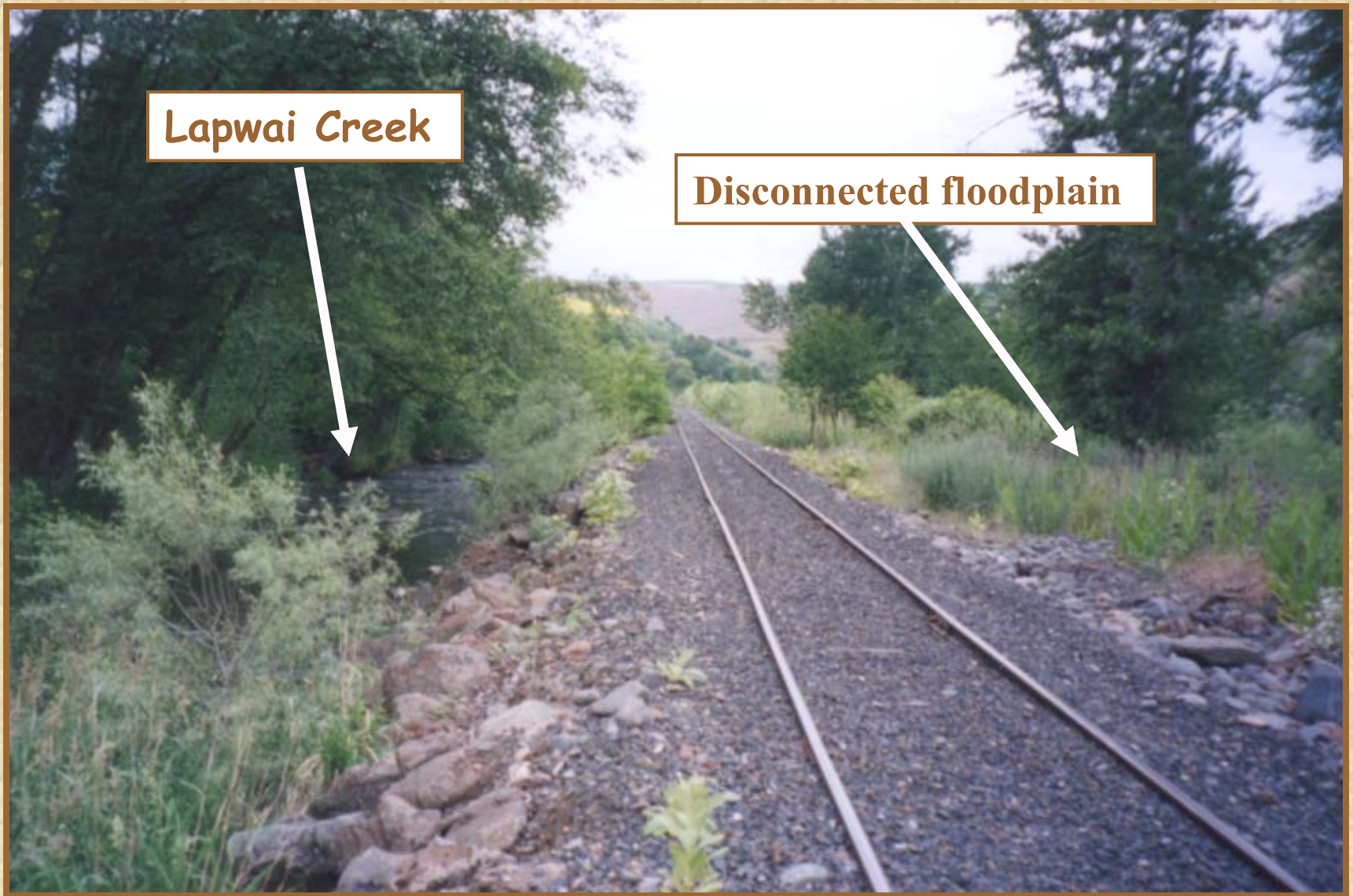
Railroad prism rip-rapped next to Lapwai Creek limiting riparian vegetation.





Railroad bridge crossing constricting the stream channel.





Lapwai Creek

Disconnected floodplain

Railroad prism cutting off Lapwai Creek to its floodplain..



# Implement Camas Prairie Railroad Abandonment Stream Restoration Plan - Lapwai Creek Watershed

## Major Tasks

- *Remove approximately 4 miles total of railroad prism*
- *Remove 4 bridges*
- *Complete mitigation measures*
  - *Eradicate noxious weed infestations*
  - *Implement erosion control measures*
  - *Revegetation*
- *Implement Monitoring and Evaluation*
  - *Fish populations (electro-fishing)*
  - *Habitat*

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